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L Number	Hits	Search Text	DB	Time stamp
4	4	(config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
5	7	(config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same (e-commerce)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
6	21	(config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same (commerce)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
7	94	config\$4 near5 (product\$1 or service\$2) near5 order\$4 near10 custom\$7	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
8	0	US-5822206-A.DID. and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) and ((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
9	0	5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) and ((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
10	0	(5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) and ((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
11	1	US-5822206-A.DID. and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 )))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
12	0	((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 )))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
13	3	(cad\$ and (((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:09
14	0	((((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) ) and ((cad\$ and ((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:09
15	99	(((((gui or ui or (user\$3 near2 interfac\$4))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and (((quest\$4 ask\$3) near5 (product\$4 component\$4))) and ((answer\$4 input\$4 typ\$4) near5 (quest\$4 ask\$4) )) and (pric\$4 near5 (part\$4 component\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:10

16	0	((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) ) and ((cad\$ and ((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5)) and ( ((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) ) and ((cad\$ and ((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:10
17	0	((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) ) and ((cad\$ and ((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5)) and ( ((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) ) and ((cad\$ and ((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5))) and (((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) ) and ((cad\$ and ((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5)) and ( ((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) ) and ((cad\$ and ((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:10
18	0	((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) ) and ((cad\$ and ((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5)) and ( ((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) ) and ((cad\$ and ((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5))) and (((config\$4 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)) and 5822206.PN. and (5822206.PN. and (5822206.pn. and (design\$3 same product\$3 and inference\$3 ))) ) and ((cad\$ and ((design\$4 assembl\$4) near5 (product\$4))) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5))) and (((((gui or ui or (user\$3 near2 interfac\$4))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and ((quest\$4 ask\$3) near5 (product\$4 component\$4))) and ((answer\$4 input\$4 typ\$4) near5 (quest\$4 ask\$4) )) and (pric\$4 near5 (part\$4 component\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:10
-	72461	((gui or ui or (user near2 interfac\$2)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 11:12
-	154	((gui or ui or (user near2 interfac\$2))) near5 input near5 config\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 15:33
-	0	((gui or ui or (user near2 interfac\$2))) near5 input near5 config\$5 and (frame\$1 near3 engin\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 12:46

-	2047	output near5 config\$5 near5 data	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 12:47
-	243	((gui or ui or (user near2 interfac\$2))) near5 input near5 config\$7	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 12:48
-	0	(frame\$1 near3 engin\$2) and (((gui or ui or (user near2 interfac\$2))) near5 input near5 config\$7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 12:48
-	2	(output near5 config\$5 near5 data) and (((gui or ui or (user near2 interfac\$2))) near5 input near5 config\$7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 12:51
-	4	(frame\$1 near3 engin\$2) and ((output near5 config\$5 near5 data) and ((gui or ui or (user near2 interfac\$2))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 12:52
-	3	((output near5 config\$5 near5 data) and ((gui or ui or (user near2 interfac\$2)))) and inferenc\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 12:58
-	309	(output near5 config\$5 near5 data) and ((gui or ui or (user near2 interfac\$2)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 13:19
-	7874	config\$7 near5 (product\$1 or service\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 13:20
-	20689	config\$7 near5 (product\$1 or service\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 13:21
-	503	config\$7 near5 (product\$1 or service\$2) near5 order\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 13:27
-	3	(config\$7 near5 (product\$1 or service\$2) near5 order\$4 ) same internet same (on-line or online)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:07
-	1	(config\$7 near5 (product\$1 or service\$2) near5 order\$4 ) same (e-commerce)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
-	7	(config\$7 near5 (product\$1 or service\$2) near5 order\$4 ) same (commerce)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08

-	72	config\$7 near5 (product\$1 or service\$2) near5 order\$4 near10 custom\$7	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08
-	1532	custom\$7 near5 product\$1 near5 order\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 14:18
-	11	(custom\$7 near5 product\$1 near5 order\$4 ) same (e-commerce\$1 or ecommerce\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 14:18
-	15097	custom\$7 near5 product\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 14:18
-	108	(custom\$7 near5 product\$1 ) same (e-commerce\$1 or ecommerce\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/09/23 14:19
-	2	5745765.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/15 16:05
-	2	5877966.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/15 16:05
-	8810	frame\$1 near3 engin\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/15 16:32
-	9	(frame\$1 near3 engin\$2) and (config\$5 near5 product\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/15 16:33
-	13	(frame\$1 near3 engin\$2) and (config\$7 near5 product\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/15 16:36
-	6	cad near5 custom\$4 near5 product\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/15 16:43
-	12	cad near10 custom\$4 near5 product\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/15 16:44
-	72521	(ui or (user near2 interfac\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/22 13:23

-	179	((ui or (user near2 interfac\$2))) and (project\$5 near5 config\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/22 13:23
-	102	((ui or (user near2 interfac\$2))) and (project\$5 near5 config\$6)) and (fram\$3 or inferenc\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/22 13:24
-	25	((ui or (user near2 interfac\$2))) and (project\$5 near5 config\$6)) and (fram\$3 or inferenc\$5)) and (output near5 config\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/22 13:25
-	25	((ui or (user near2 interfac\$2))) and (project\$5 near5 config\$6)) and (fram\$3 or inferenc\$5)) and (output\$5 near5 config\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/22 13:25
-	0	6351734.pn. and (configur\$4 near5 product\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/07 11:24
-	1	6351734.pn. and (configur\$4 same product\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/07 11:24
-	1	"CAD" same (product\$3 near5 hierarch\$4) same fram\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:35
-	6	"CAD" same (product\$3 near5 design) same fram\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/07 15:00
-	661	"CAD" same (product\$3 near5 design)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/07 15:00
-	20	("CAD" same (product\$3 near5 design) ) and (question\$3 same answer\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/07 15:02
-	110	((UI or (user near2 interface)) near5 receiv\$4 near5 configurat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:14
-	0	((UI or (user near2 interface)) near5 receiv\$4 near5 configurat\$4)) and ((frame\$1 near3 engin\$2) near5 output near5 configurat\$4) same inference\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:16
-	0	((UI or (user near2 interface)) near5 receiv\$4 near5 configurat\$4)) and ((frame\$1 near3 engin\$2) near5 output\$3 near5 configurat\$4) same inference\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:16

-	0	((UI or (user near2 interface)) near5 receiv\$4 near5 configurat\$4)) and (frame\$1 near5 output\$3 near5 configurat\$4) same inferenc\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:17
-	0	((UI or (user near2 interface)) near5 receiv\$4 near5 configurat\$4)) and (frame\$1 near5 engine\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:18
-	33	((UI or (user near2 interface)) near5 receiv\$4 near5 configurat\$4)) and (frame\$1 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:25
-	17579	product\$3 near5 configurat\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:27
-	0	(product\$3 near5 configurat\$4) and (fram\$3 near5 engine\$1) same inferenc\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:28
-	0	((product\$3 near5 configurat\$4) and (fram\$3 near5 engine\$1) ) and inferenc\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:28
-	17	(product\$3 near5 configurat\$4) and (fram\$3 near5 engine\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:31
-	9519	fram\$3 near3 engine\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:32
-	0	(fram\$3 near3 engine\$1 ) same (output\$4 near5 configurat\$4 near5 data)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:34
-	5	(fram\$3 near3 engine\$1 ) and (output\$4 near5 configurat\$4 near5 data)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:34
-	24636	CAD	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:35
-	91	( CAD ) and (configurat\$4 near5 fram\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:37
-	0	(( CAD ) and (configurat\$4 near5 fram\$2)) and (inferenc\$3 near5 ouput\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:37

-	0	(( CAD ) and (configurat\$4 near5 fram\$2)) and (inferenc\$3 same ouput\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:38
-	2	(( CAD ) and (configurat\$4 near5 fram\$2)) and (inferenc\$3 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:52
-	13710	5293478.pn. (frame\$1 near5 engine\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:53
-	0	5293479.pn. and (frame\$1 near5 engine\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:53
-	1	5293479.pn. and (frame\$1 same engine\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 14:20
-	0	5293479.pn. and (user\$1 near5 input\$4 near5 configurat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:56
-	0	5293479.pn. and (user\$1 near7 input\$4 near7 configurat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:56
-	0	5293479.pn. and ( input\$4 near7 configurat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:57
-	0	5293479.pn. and ( output\$4 near7 configurat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:57
-	0	5293479.pn. and ( input\$4 same configurat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 10:58
-	1	5293479.pn. and ( input\$4 same output\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 11:05
-	1	5293479.pn. and (select\$4 near5 project\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 11:07
-	1	5293479.pn. and (user near3 interface)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 11:11



-	0	5293479.pn. and (user near3 interface near5 configurat\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 11:11
-	1	5293479.pn. and (user near3 interface near10 configurat\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 13:28
-	5142	product\$3 near4 design\$3 near4 (tool\$1 system\$1 method\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 13:31
-	1102	product\$3 near4 configurat\$3 near4 (tool\$1 system\$1 method\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 13:32
-	6168	(product\$3 near4 design\$3 near4 (tool\$1 system\$1 method\$1)) or (product\$3 near4 configurat\$3 near4 (tool\$1 system\$1 method\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 13:32
-	0	((product\$3 near4 design\$3 near4 (tool\$1 system\$1 method\$1)) or (product\$3 near4 configurat\$3 near4 (tool\$1 system\$1 method\$1))) and ((frame\$1 near3 engine\$1) near5 (output\$3 display\$4)) same inference\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 13:36
-	0	((product\$3 near4 design\$3 near4 (tool\$1 system\$1 method\$1)) or (product\$3 near4 configurat\$3 near4 (tool\$1 system\$1 method\$1))) and ((frame\$1) near5 (output\$3 display\$4)) same inference\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 13:35
-	1	((product\$3 near4 design\$3 near4 (tool\$1 system\$1 method\$1)) or (product\$3 near4 configurat\$3 near4 (tool\$1 system\$1 method\$1))) and ((frame\$1) same (output\$3 display\$4)) same inference\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 13:35
-	0	5293479.pn. and (frame\$1 same assembling\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 14:21
-	1	5293479.pn. and (frame\$1 same assembl\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 14:23
-	1	5293479.pn. and (frame\$1 near10 assembl\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 14:24
-	1	5293479.pn. and (frame\$1 same engin\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 14:42
-	0	5293479.pn. and (access\$4 near7 interface\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 14:43

-	0	5293479.pn. and (access\$4 near10 interface\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 14:43
-	0	5293479.pn. and (access\$4 same interface\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 14:44
-	1	5293479.pn. and (access\$4 and interface\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 14:56
-	1	5293479.pn. and (project\$4 near10 select\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 14:57
-	0	5784286.pn. and (product\$1 near10 knowledg\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 16:56
-	1	5784286.pn. and (hierarch\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 17:00
-	24711	product\$1 near3 design\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 17:01
-	66451	(product\$1 configur\$6) near3 design\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 17:02
-	33	((product\$1 configur\$6) near3 design\$3) and (product\$1 near5 (information knowledg\$3) near5 hierarch\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/08 17:05
-	2	5966310.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/16 14:16
-	67546	product\$3 near5 (design\$3 config\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:55
-	5161	computer same (product\$3 near5 (design\$3 config\$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:39
-	5161	computer\$3 same (product\$3 near5 (design\$3 config\$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:26

-	2	(computer\$3 same (product\$3 near5 (design\$3 config\$6))) and (hierarch\$4 near5 product\$4 near5 frame\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:31
-	122	(computer\$3 same (product\$3 near5 (design\$3 config\$6))) and (hierarch\$4 near5 product\$4 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:32
-	6	((computer\$3 same (product\$3 near5 (design\$3 config\$6))) and (hierarch\$4 near5 product\$4 )) and (frame\$3 near5 assembl\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:35
-	6688	computer same (product\$3 near8 (design\$3 config\$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:39
-	458	(computer same (product\$3 near8 (design\$3 config\$6))) and (question\$3 same (answer\$3 ask\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:53
-	17	((computer same (product\$3 near8 (design\$3 config\$6))) and (question\$3 same (answer\$3 ask\$4))) and (frame\$3 and inference\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:52
-	4	((computer same (product\$3 near8 (design\$3 config\$6))) and (question\$3 same (answer\$3 ask\$4))) and (frame\$3 same inference\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:46
-	158	(computer same (product\$3 near8 (design\$3 config\$6))) and (product\$3 same question\$3 same (answer\$3 ask\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:53
-	2	((computer same (product\$3 near8 (design\$3 config\$6))) and (product\$3 same question\$3 same (answer\$3 ask\$4))) and (assembl\$4 same inference\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:54
-	903	(product\$3 near5 (design\$3 config\$6)) and (product\$3 near7 (question\$4 ask\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:57
-	110	(computer\$3 same (product\$3 near5 (design\$3 config\$6))) and (assembl\$4 near9 frame\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:57
-	4	((computer\$3 same (product\$3 near5 (design\$3 config\$6))) and (assembl\$4 near9 frame\$4)) and (inference\$3 and pric\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/01 13:58
-	27531	"CAD"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 09:43

-	146	"CAD" and (inference\$4 and hierarch\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:26
-	35	("CAD" and (inference\$4 and hierarch\$4)) and ((request\$4 question\$4) same (answer\$3 ask\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 09:58
-	2	4964060.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:09
-	1	4964060.pn. and (product\$1 and knowledg\$3 and hierarch\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 09:59
-	1	4964060.pn. and (product\$1 and knowledg\$3 and hierarch\$5 and frame\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:00
-	1	4964060.pn. and (product\$1 and knowledg\$3 and hierarch\$5 and frame\$3 AND answer\$3 and question\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:00
-	1	4964060.pn. and (product\$1 and knowledg\$3 and hierarch\$5 and frame\$3 AND answer\$3 and question\$3 and inference\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:01
-	1	4964060.pn. and (product\$1 and knowledg\$3 and hierarch\$5 and frame\$3 AND answer\$3 and question\$3 and inference\$3 and configur\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:05
-	1	4964060.pn. and (product\$1 and knowledg\$3 and hierarch\$5 and frame\$3 AND answer\$3 and question\$3 and inference\$3 and configur\$3 and cad)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:05
-	1	4964060.pn. and (product\$1 and knowledg\$3 and hierarch\$5 and frame\$3 AND answer\$3 and question\$3 and inference\$3 and configur\$3 and cad and database\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:06
-	1	4964060.pn. and (product\$1 and knowledg\$3 and hierarch\$5 and frame\$3 AND answer\$3 and question\$3 and inference\$3 and configur\$3 and cad and database\$1 and expert\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:23
-	1	4964060.pn. and (product\$3 same knowledg\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:10
-	0	4964060.pn. and (product\$3 same knowledg\$3 same hierarch\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:10

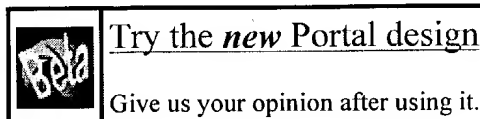
-	1	4964060.pn. and (product\$3 same knowledg\$3 and hierarch\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:16
-	1	4964060.pn. and (product\$3 same knowledg\$3 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:13
-	1	4964060.pn. and (product\$3 and knowledg\$3 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:13
-	1	4964060.pn. and ( knowledg\$3 and hierarch\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:16
-	3	(product\$1 and knowledg\$3 and hierarch\$5 and frame\$3 AND answer\$3 and question\$3 and inference\$3 and configur\$3 and cad and database\$1 and expert\$3 and price\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:23
-	303	"CAD" and (inference\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:26
-	117	("CAD" and (inference\$4)) and (request\$4 question\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:26
-	3	((("CAD" and (inference\$4)) and (request\$4 question\$3)) and ((configur\$4 draw\$4) near7 product\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:28
-	158837	(product\$3 frame\$1) near5 (design\$3 draw\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:29
-	5160	((product\$3 frame\$1) near5 (design\$3 draw\$4)) and (product\$1 near5 (knowledg\$4 information))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:30
-	128	((((product\$3 frame\$1) near5 (design\$3 draw\$4)) and (product\$1 near5 (knowledg\$4 information))) and (request\$3 question\$2 answer\$3) and Inference\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:31
-	61	(((((product\$3 frame\$1) near5 (design\$3 draw\$4)) and (product\$1 near5 (knowledg\$4 information))) and (request\$3 question\$2 answer\$3) and Inference\$3) and price\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/02 10:32
-	2	5822206.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/03 14:55

-	0	5822206.pn. and (knowledg\$3 same hierarch\$4 same strucutre\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/03 14:56
-	0	5822206.pn. and (knowledg\$3 same hierarch\$4 same strucuture\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/03 14:56
-	1	5822206.pn. and (knowledg\$3 same hierarch\$4 same structure\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/03 15:04
-	0	5822206.pn. and (categor\$4 same frame\$2 same node\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/03 15:05
-	0	5822206.pn. and (categor\$4 and frame\$2 and node\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/03 15:05
-	1	5822206.pn. and (categor\$4 and frame\$2 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/04 09:51
-	0	5822206.pn. and (inference\$4 same frame\$2 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/04 09:52
-	1	5822206.pn. and (inference\$4 and frame\$2 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/04 09:56
-	0	5822206.pn. and (config\$4 same product\$3 same inference\$3 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/04 09:57
-	0	5822206.pn. and (config\$4 same product\$3 and inference\$3 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/04 09:57
-	0	5822206.pn. and (config\$4 and product\$3 and inference\$3 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/04 09:57
-	0	5822206.pn. and (configur\$4 and product\$3 and inference\$3 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/04 09:57
-	1	5822206.pn. and (design\$3 and product\$3 and inference\$3 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/04 09:58

-	0	5822206.pn. and (design\$3 same product\$3 same inference\$3 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/04 09:58
-	1	5822206.pn. and (design\$3 same product\$3 and inference\$3 )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/04 09:58
-	38	(network\$3 near5 user\$3 near5 input\$3) same GUI	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/10 12:30
-	124439	(gui or ui or (user\$3 near2 interfac\$2))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 11:12
-	23445	((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 11:13
-	798	((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and ((quest\$4 ask\$3) near5 (product\$4 component\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 11:15
-	422	((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and ((quest\$4 ask\$3) near5 (product\$4 component\$4))) and ((answer\$4 input\$4 typ\$4) near5 (quest\$4 ask\$4) )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 11:16
-	0	((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and ((quest\$4 ask\$3) near5 (product\$4 component\$4))) and ((answer\$4 input\$4 typ\$4) near5 (quest\$4 ask\$4) ) and (assembl\$4 near5 fram\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 11:18
-	6	((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and ((quest\$4 ask\$3) near5 (product\$4 component\$4))) and ((answer\$4 input\$4 typ\$4) near5 (quest\$4 ask\$4) ) and (design\$4 near5 fram\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 11:17
-	140	((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and ((quest\$4 ask\$3) near5 (product\$4 component\$4))) and ((answer\$4 input\$4 typ\$4) near5 (quest\$4 ask\$4) ) and (assembl\$4 near5 (part\$4 component\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 11:19
-	97	((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and ((quest\$4 ask\$3) near5 (product\$4 component\$4))) and ((answer\$4 input\$4 typ\$4) near5 (quest\$4 ask\$4) ) and (pric\$4 near5 (part\$4 component\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:09
-	2585252	door\$3 enar3 assembl\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 14:16
-	26589	door\$3 near3 assembl\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 14:17

-	219	((gui or ui or (user\$3 near2 interfac\$2))) and (door\$3 near3 assembl\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 14:17
-	149	((gui or ui or (user\$3 near2 interfac\$2))) and (door\$3 near3 assembl\$4) and (((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 14:17
-	2	((gui or ui or (user\$3 near2 interfac\$2))) and (door\$3 near3 assembl\$4) and (((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and (((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and ((quest\$4 ask\$3) near5 (product\$4 component\$4))) and ((answer\$4 input\$4 typ\$4) near5 (quest\$4 ask\$4) )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 14:18
-	3	((gui or ui or (user\$3 near2 interfac\$2))) and (door\$3 near3 assembl\$4) and (((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and (((gui or ui or (user\$3 near2 interfac\$2))) and ((assembl\$4 design\$4 creat\$4) near5 (component\$4 part\$4))) and ((quest\$4 ask\$3) near5 (product\$4 component\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 14:18
-	3143	cad and ((design\$4 assembl\$4) near5 (product\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 15:32
-	295	((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/28 15:33
-	3	cad and ((design\$4 assembl\$4) near5 (product\$4)) and (((gui or ui or (user near2 interfac\$2))) near3 input near5 config\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/09 17:08





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### 1 Motion capture, editing & planning: Unsupervised learning for speech motion editing 84

 Yong Cao , Petros Faloutsos , Frédéric Pighin  
**Proceedings of the 2003 ACM SIGGRAPH/Eurographics Symposium on Computer Animation**  
July 2003

We present a new method for editing speech related facial motions. Our method uses an unsupervised learning technique, Independent Component Analysis (ICA), to extract a set of meaningful parameters without any annotation of the data. With ICA, we are able to solve a blind source separation problem and describe the original data as a linear combination of two sources. One source captures content (speech) and the other captures style (emotion). By manipulating the independent components we can ed ...

### 2 Geometric algorithms for animation: Dynapack: space-time compression of the 3D 80 animations of triangle meshes with fixed connectivity


 Lawrence Ibarria , Jarek Rossignac  
**Proceedings of the 2003 ACM SIGGRAPH/Eurographics Symposium on Computer Animation**  
July 2003

Dynapack exploits space-time coherence to compress the consecutive frames of the 3D animations of triangle meshes of constant connectivity. Instead of compressing each frame independently (space-only compression) or compressing the trajectory of each vertex independently (time-only compression), we predict the position of each vertex  $\mathbf{v}$  of frame  $f$  from three of its neighbors in frame  $f$  and from the positions of  $\mathbf{v}$  and of these neighbors in the previous frame (space-time ...

### 3 Revising an ATN parser 77







 Giacomo Ferrari , Irina Prodanof  
**Proceedings of the 9th conference on Computational linguistics - Volume 2** July 1982

### 4 Design principles for software manufacturing tools 77

 Paul Bassett  
**Proceedings of the 1984 annual conference of the ACM on The fifth generation challenge**  
January 1984

A good solution to the reusable code problem turns out to provide a solid technical basis from which to understand and deal with the production, quality, and maintenance issues currently besieging the

software industry. To this end, a software manufacturing methodology has been developed called Computer Aided Programming tm. CAP is based on a functional programming concept called a frame, motivated in turn by the reusable code problem. The introduction explains the necessary back ...

- 5** On the application of syntactic methodologies in automatic text analysis 77  
 G. Salton , M. Smith  
**ACM SIGIR Forum , Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval** May 1989  
Volume 23 Issue 1-2  
This study summarizes various linguistic approaches proposed for document analysis in information retrieval environments. Included are standard syntactic methods to generate complex content identifiers, and the use of semantic know-how obtained from machine-readable dictionaries and from specially constructed knowledge bases. A particular syntactic analysis methodology is also outlined and its usefulness for the automatic construction of book indexes is examined.
- 6** Using model dataflow graphs to reduce the storage requirements of constraints 77  
 Bradley T. Vander Zanden , Richard Halterman  
**ACM Transactions on Computer-Human Interaction (TOCHI)** September 2001  
Volume 8 Issue 3  
Dataflow constraints allow programmers to easily specify relationships among application objects in a natural, declarative manner. Most constraint solvers represent these dataflow relationships as directed edges in a dataflow graph. Unfortunately, dataflow graphs require a great deal of storage. Consequently, an application with a large number of constraints can get pushed into virtual memory, and performance degrades in interactive applications. Our solution is based on the observation that obj ...
- 7** DESIGN: a generic configuration shell 77  
 Michael R. Hall , J. S. Kaminski , Arumugam Kumaran , Diane A. Ruddock  
**Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1** June 1990
- 8** One-level phonology: autosegmental representations and rules as finite automata 77  
 Steven Bird , T. Mark Ellison  
**Computational Linguistics** March 1994  
Volume 20 Issue 1  
When phonological rules are regarded as declarative descriptions, it is possible to construct a model of phonology in which rules and representations are no longer distinguished and such procedural devices as rule-ordering are absent. In this paper we present a finite-state model of phonology in which automata are the descriptions and tapes (or strings) are the objects being described. This provides the formal semantics for an autosegmental phonology without structure-changing rules. Logical ope ...
- 9** Dynamic variable resolution in the quickscreen combat model 77  
 John B. Gilmer  
**Proceedings of the 15th conference on Winter Simulation - Volume 2** December 1983  
The Quickscreen combat simulation has a scope of Corps level and dynamic resolution from division to battalion level and from 3.5 to 25 km. This allows a significant performance improvement. Disaggregation occurs when a unit enters an area near enemy units. It is broken down into subordinate units at a higher level of resolution. A physical space representation that treats resolution as a dimension supports this treatment. As the area of contact shifts due to the course of the battle, the r ...
- 10** Adapting content to mobile devices: DOM-based content extraction of HTML documents 77  
 Suhit Gupta , Gail Kaiser , David Neistadt , Peter Grimm

**Proceedings of the twelfth international conference on World Wide Web** May 2003

Web pages often contain clutter (such as pop-up ads, unnecessary images and extraneous links) around the body of an article that distracts a user from actual content. Extraction of "useful and relevant" content from web pages has many applications, including cell phone and PDA browsing, speech rendering for the visually impaired, and text summarization. Most approaches to removing clutter or making content more readable involve changing font size or removing HTML and data components such as imag ...

**11 Efficient support for interactive service in multi-resolution VOD systems**

77


 Kelvin K. W. Law , John C. S. Lui , Leana Golubchik

**The VLDB Journal — The International Journal on Very Large Data Bases** October 1999  
Volume 8 Issue 2

Advances in high-speed networks and multimedia technologies have made it feasible to provide video-on-demand (VOD) services to users. However, it is still a challenging task to design a cost-effective VOD system that can support a large number of clients (who may have different quality of service (QoS) requirements) and, at the same time, provide different types of VCR functionalities. Although it has been recognized that VCR operations are important functionalities in providing VOD service, tec ...

**12 Automatic acquisition of domain and procedural knowledge**

77

 H. J. Ferber , M. Ali

**Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2** June 1988

**13 Animation: Computer aided inbetweening**

77


 Alexander Kort

**Proceedings of the 2nd international symposium on Non-photorealistic animation and rendering** June 2002

The production of inbetweens is a tedious task for animators and a complicated one for algorithms. In this paper, an algorithm for computer aided inbetweening and its integration in a pen-based graphical user interface are presented. The algorithm is layer-based, assuming an invariant layering order. It is applicable to animations in a style similar to paper cut out, in which the drawings on the cut-out pieces are inbetweened as well. The content of each key drawing is analysed and classified int ...

**14 ConMan: a visual programming language for interactive graphics**

77

 Paul E. Haeberli


**ACM SIGGRAPH Computer Graphics , Proceedings of the 15th annual conference on Computer graphics and interactive techniques** June 1988

Volume 22 Issue 4

Traditionally, interactive applications have been difficult to build, modify and extend. These integrated applications provide bounded bounded functionality, have a single thread of control and a fixed user interface that must anticipate everything the user will need. Current workstations allow several processes to share the screen. With proper communication between processes, it is possible to escape previous models for application development and evolution. *ConMan* is a high-level visual l ...

**15 CUPV—a visualization tool for generated parsers**

77

 Alan Kaplan , Denise Shoup


**ACM SIGCSE Bulletin , Proceedings of the thirty-first SIGCSE technical symposium on Computer science education** March 2000

Volume 32 Issue 1

Compiler projects frequently use parser generators to help students design and construct non-trivial translators. Unfortunately, the code and data structures produced by such generators, and hence the overall parser, can be difficult to understand and debug. In this paper, we present an extendible and flexible tool for visualizing the operation of generated parsers. The objective of this tool is to provide students with a deeper understanding of parsing algorithms, data structures and techn ...


## 16 Programming with XView

77

-  Michael Hall  
**Linux Journal** March 1998  
This article gives you a high-level introduction to programming with XView, a GUI toolkit that complements the OpenLook interface


## 17 Search and rescue: a case study of design flexibility

77

-  Keneth N. McKay , Jan Laube  
**Proceedings of the 20th conference on Winter simulation** December 1988  
This paper is a case study description of the major techniques used in the design of a Search and Rescue (SAR) model, how the methods contribute to flexibility, and how these software engineering principles relate to a formal methodology (Zeigler 1987) that has been proposed specifically for simulation development. The techniques described in this paper can be used with any of the common simulation languages (e.g., SIMAN, GPSSH, SLAM II, and SIMSCRIPT II.5).


## 18 A framework for simulation design of flexible manufacturing systems

77

-  Marco Chierotti , Jerzy W. Rozenblit , Witold Jacak  
**Proceedings of the 23rd conference on Winter simulation** December 1991


## 19 The Vista environment for the coevolutionary design of user interfaces

77

-  Judy Brown , T. C. Nicholas Graham , Timothy Wright  
**Proceedings of the SIGCHI conference on Human factors in computing systems** January 1998



## 20 The theory and practice of adaptive reuse

77

-  Paul G. Bassett  
**ACM SIGSOFT Software Engineering Notes , Proceedings of the 1997 symposium on Software reusability** May 1997  
Volume 22 Issue 3

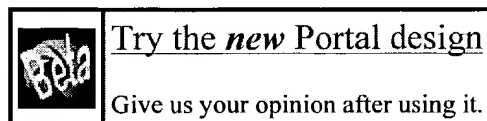
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### 21 Untying the Gordian knot: agreement in J

77


 Martin Neitzel  
**ACM SIGAPL APL Quote Quad , Proceedings of the international conference on Applied programming languages** June 1995

Volume 25 Issue 4

The "Dictionary of J" is not written for the faint of heart. Its numerous self-references make it very difficult to tackle. The author thinks that section II.B, "Verbs", is one of the keys for getting a confident grip of the language. This paper basically just repeats this section using a tutorial style, some historical background, and several pictures. Hopefully, it will enable people with analytical minds to find their own way through the Dictionary. It closes with ...


### 22 Practical results from measuring software quality

77

 Robert B. Grady  
**Communications of the ACM** November 1993  
Volume 36 Issue 11

### 23 Distributed real-time system specification and verification in APTL

77

 Farn Wang , Aloysius K. Mok , E. Allen Emerson  
**ACM Transactions on Software Engineering and Methodology (TOSEM)** October 1993  
Volume 2 Issue 4

In this article, we propose a language, Asynchronous Propositional Temporal Logic (APTL), for the specification and verification of distributed hard real-time systems. APTL extends the logic TPTL by dealing explicitly with multiple local clocks. We propose a distributed-system model which permits definition of inequalities asserting the temporal precedence of local clock readings. We show the expressiveness of APTL through two nontrivial examples. Our logic can be used to specify and reason ...



### 24 Separating content from form: A language for formatting on-line documentation and dialog

 Charlie Wiecha , Max Henrion  
**Proceedings of the 4th annual international conference on Systems documentation** February 1986

Recent research has demonstrated the advantages of separating management of the user interface from the application program. A user interface system should integrate access to on-line help and documentation with other dialog for interacting with the program into a uniform environment. We describe such a user interface management system, called ICE, with emphasis on its facilities for authoring networks of frames containing help information and menus for interacting with the application prog ...

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1 2 3




- 1** Status report of the graphic standards planning committee of ACM/SIGGRAPH: 82

 State-of-the-art of graphic software packages

Computer Graphics staff

**ACM SIGGRAPH Computer Graphics** September 1977


Volume 11 Issue 3
- 2** Graphpak: a tool-builder's approach to graphical data presentation 80

 Walt Niehoff

**ACM SIGAPL APL Quote Quad** March 1998

Volume 28 Issue 3

There have been several APL Quote Quad papers published in the past few years that discuss requirements for APL graphics capabilities. The Graphpak workspace now distributed with IBM's APL2 products evolved from its 1970 roots in an environment that projected similar requirements. This paper discusses the characteristics of Graphpak that have contributed to its evolving application and its longevity. Following an introduction that describes its evolution, the paper will focus on its "tool box" a ...
- 3** Papers from MC<sup>2</sup>R open call: Towards integrated PSEs for wireless communications: 77









 experiences with the S<sup>4</sup>W and SitePlanner® projects

Roger R. Skidmore , Alex Verstak , Naren Ramakrishnan , Theodore S. Rappaport , Layne T. Watson , Jian He , Srinidhi Varadarajan , Clifford A. Shaffer , Jeremy Chen , Kyung Kyoan Bae , Jing Jiang , William H. Tranter









**ACM SIGMOBILE Mobile Computing and Communications Review** April 2004

Volume 8 Issue 2

This paper describes the computational methodologies of two problem solving environments (PSEs) for wireless network design and analysis, one academic (S<sup>4</sup>W) and one commercial (SitePlanner®). The PSEs address differently common computational issues such as environment specification, propagation modeling, channel performance prediction, system design optimization, and data management. The intended uses, interfaces, and capabilities of the two PSEs are compared and contrasted in a c ...

- 4 Dissertation Abstracts in Computer Graphics 77  
 **ACM SIGGRAPH Computer Graphics** January 1992  
Volume 26 Issue 1
- 5 Virtual playground: architectures for a shared virtual world 77  
 Paul Schwartz , Lauren Bricker , Bruce Campbell , Tom Furness , Kori Inkpen , Lydia Matheson ,  
Nobutatsu Nakamura , Li-Sheng Shen , Susan Tanney , Shihming Yen  
**Proceedings of the ACM symposium on Virtual reality software and technology** November 1998
- 6 Computer graphics and architectural design 77  
 Glenn Goldman , Richard Norman , Stephen M. Zdepski , Elizabeth Bollinger , James Turner  
**ACM SIGGRAPH Computer Graphics** July 1991  
Volume 25 Issue 3
- 7 Status report of the graphic standards planning committee 77  
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**ACM SIGGRAPH Computer Graphics** August 1979  
Volume 13 Issue 3
- 8 Data model for extensible support of explicit relationships in design databases 77  
 Joan Peckham , Bonnie MacKellar , Michael Doherty  
**The VLDB Journal — The International Journal on Very Large Data Bases** April 1995  
Volume 4 Issue 2  
We describe the conceptual model of SORAC, a data modeling system developed at the University of Rhode Island. SORAC supports both semantic objects and relationships, and provides a tool for modeling databases needed for complex design domains. SORAC's set of built-in semantic relationships permits the schema designer to specify enforcement rules that maintain constraints on the object and relationship types. SORAC then automatically generates C++ code to maintain the specified enforcement rules ...
- 9 Spoken dialogue technology: enabling the conversational user interface 77  
 **ACM Computing Surveys (CSUR)** March 2002  
Volume 34 Issue 1  
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 Gopal Gupta , Enrico Pontelli , Khayri A.M. Ali , Mats Carlsson , Manuel V. Hermenegildo  
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Volume 23 Issue 4  
Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...
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 Michael Brady  
**ACM Computing Surveys (CSUR)** January 1982



- 12 Network Protocols** 77  
 Andrew S. Tanenbaum  
**ACM Computing Surveys (CSUR)** December 1981  
Volume 13 Issue 4
- 13 Geographic Data Processing** 77  
 George Nagy , Sharad Wagle  
**ACM Computing Surveys (CSUR)** June 1979  
Volume 11 Issue 2
- 14 Current technological impediments to business-to-consumer electronic commerce** 77  
 Gregory Rose , Huoy Khoo , Detmar W. Straub  
**Communications of the AIS** June 1999
- 15 The multi-Media workstation** 77  
 D. Phillips , P. Vais , S. Perlman , K. Lantz , M. Picco  
**ACM SIGGRAPH Computer Graphics , ACM SIGGRAPH 89 Panel Proceedings** July 1989  
Volume 23 Issue 5
- Good afternoon, ladies and gentlemen. Thank you very much for taking time out from the parties to join us for one of the peripheral activities of SIGGRAPH. As you know, the panel that we're going to be holding this afternoon is entitled the Multi-Media Workstation. Before I make some introductory remarks, I am required to make some administrative remarks.
- The first thing is to remind you that the proceedings of all of the panels are being audio taped this year for subsequent ...
- 16 Meeting experience: Experiential meeting system** 77  
 Ramesh Jain , Pilho Kim , Zhao Li  
**Proceedings of the 2003 ACM SIGMM workshop on Experiential telepresence** November 2003  
We are developing experiential meeting systems to allow people to be tele-present in a remote meeting and to be able to review proceedings of a meeting or of several meetings using all the data recorded in a meeting. We consider this as a problem in management and experiential access to all multimedia data acquired in a meeting. The data includes video, audio, presentations, text material, databases and websites related to people and the discussions in the meeting, and any other data or informat ...
- 17 Using classification to generate text** 77  
 Ehud Reiter , Chris Mellish  
**Proceedings of the 30th conference on Association for Computational Linguistics** June 1992  
The IDAS natural-language generation system uses a KL-ONE type classifier to perform content determination, surface realisation, and part of text planning. Generation-by-classification allows IDAS to use a single representation and reasoning component for both domain and linguistic knowledge, which is difficult for systems based on unification or systemic generation techniques.
- 18 Representing knowledge: part III. Frames: Minsky's frame system theory** 77  
 **Proceedings of the 1975 workshop on Theoretical issues in natural language processing** June 1975
- 19 Production: The unreal editor as a Web 3D authoring environment** 77  
 David Arendash

Epic Games provides a free game level editor with titles based on its Unreal engine. The editor provides a rich set of authoring tools that can be used to create fully interactive environments. This paper describes a tool that converts Unreal levels to web-ready environments in VRML and X3D. The paper also examines the similarities between first-person-shooter games and web 3D worlds, and discusses the implications of having a low-cost, fully featured virtual world authoring environment available ...

## 20 Special issue on Machine learning methods for text and images: A neural

77

### probabilistic language model

Yoshua Bengio , Réjean Ducharme , Pascal Vincent , Christian Janvin

**The Journal of Machine Learning Research** March 2003

Volume 3

A goal of statistical language modeling is to learn the joint probability function of sequences of words in a language. This is intrinsically difficult because of the **curse of dimensionality**: a word sequence on which the model will be tested is likely to be different from all the word sequences seen during training. Traditional but very successful approaches based on n-grams obtain generalization by concatenating very short overlapping sequences seen in the training set. We propose to fig ...

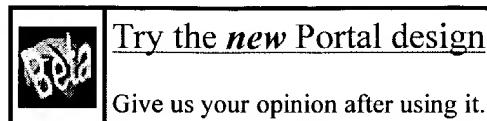
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### 21 Applications: Building a massively multiplayer game for the million: Disney's

77

#### Toontown Online

Mark R. Mine , Joe Shochet , Roger Hughston

**Computers in Entertainment (CIE)** October 2003

Volume 1 Issue 1

This paper presents an overview of the lessons learned building Disney's Toontown Online, a 3D massively multiplayer online game (MMP) for children ages seven and older. The paper is divided into three main parts. The first presents design highlights of Toontown Online and focuses on the challenge of building an MMP for kids. In particular, we discuss ways of incorporating kid-friendly socialization into an MMP. The second part of the paper presents an overview of Panda-3D, the VR Studio's open ...

### 22 Data integrity: Web application security assessment by fault injection and behavior monitoring

77



Yao-Wen Huang , Shih-Kun Huang , Tsung-Po Lin , Chung-Hung Tsai

**Proceedings of the twelfth international conference on World Wide Web** May 2003

As a large and complex application platform, the World Wide Web is capable of delivering a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

### 23 Papers: novel 2D interaction: The kinetic typography engine: an extensible system for animating expressive text

77










Johnny C. Lee , Jodi Forlizzi , Scott E. Hudson

**Proceedings of the 15th annual ACM symposium on User interface software and technology**

October 2002


*Kinetic typography* --- text that uses movement or other temporal change --- has recently emerged as a new form of communication. As we hope to illustrate in this paper, kinetic typography can be seen as bringing some of the expressive power of film --- such as its ability to convey emotion,

portray compelling characters, and visually direct attention --- to the strong communicative properties of text. Although kinetic typography offers substantial promise for expressive communications, it ...


- 24** Special issue on critical analyses of ERP systems: the macro level: The control  
devolution: ERP and the side effects of globalization 77  
 Ole Hanseth , Claudio U. Ciborra , Kristin Braa  
**ACM SIGMIS Database** September 2001  
Volume 32 Issue 4  
When looking at the implementation of ERP systems in large organizations, the typical business concerns are attaining the goals of the application, usually globalization and efficiency, securing the organization's acceptance, avoiding rigidity, and so on. By now, the literature is full of both normative models on how to implement ERPs successfully and cautioning tales of how the road to success is paved by traps, slowdowns, and even disillusion. This paper does not take sides in this emerging li ...
- 25** Columns: Risks to the public in computers and related systems 77  
 Peter G. Neumann  
**ACM SIGSOFT Software Engineering Notes** January 2001  
Volume 26 Issue 1
- 26** Privacy and security: an ethical analysis 77  
 Gregory J. Walters  
**ACM SIGCAS Computers and Society** June 2001  
Volume 31 Issue 2
- 27** Illustrative risks to the public in the use of computer systems and related  
technology 77  
 Peter G. Neumann  
**ACM SIGSOFT Software Engineering Notes** January 1996  
Volume 21 Issue 1
- 28** Distributed cognition: toward a new foundation for human-computer interaction  
research 77  
 James Hollan , Edwin Hutchins , David Kirsh  
**ACM Transactions on Computer-Human Interaction (TOCHI)** June 2000  
Volume 7 Issue 2  
We are quickly passing through the historical moment when people work in front of a single computer, dominated by a small CRT and focused on tasks involving only local information. Networked computers are becoming ubiquitous and are playing increasingly significant roles in our lives and in the basic infrastructures of science, business, and social interaction. For human-computer interaction to advance in the new millennium we need to better understand the emerging dynamic of interaction in ...
- 29** A qualitative model for barriers to software reuse adoption 77  
 Karma Sherif , Ajay Vinze  
**Proceeding of the 20th international conference on Information Systems** January 1999
- 30** Tangible interaction + graphical interpretation: a new approach to 3D modeling 77  
 David Anderson , James L. Frankel , Joe Marks , Aseem Agarwala , Paul Beardsley , Jessica Hodgins , Darren Leigh , Kathy Ryall , Eddie Sullivan , Jonathan S. Yedidia  
**Proceedings of the 27th annual conference on Computer graphics and interactive techniques**  
July 2000  
Construction toys are a superb medium for geometric models. We argue that such toys, suitably instrumented or sensed, could be the inspiration for a new generation of easy-to-use, tangible

modeling systems—especially if the tangible modeling is combined with graphical-interpretation techniques for enhancing nascent models automatically. The three key technologies needed to realize this idea are embedded computation, vision-based acquisition, and graphical interpretation. We sample the ...

### 31 Inoculating software for survivability 77

 Anup K. Ghosh , Jeffrey M. Voas  
**Communications of the ACM** July 1999  
Volume 42 Issue 7

### 32 The application accelerator illustration system 77

 Michael S. Miller , Howard Cunningham , Chan Lee , Steven R. Vegdahl  
**ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications** June 1986  
Volume 21 Issue 11

The Application Accelerator Illustration System is a prototype of an integrated CAD environment that supports the development of application-specific integrated circuits. The current implementation features a hardware description language compiler, timing analyzer, functional simulator, waveform tracer, and data path place and route facility. The system is implemented in Smalltalk-80™.


### 33 Workshop on compositional software architectures: workshop report 77

 **ACM SIGSOFT Software Engineering Notes** May 1998  
Volume 23 Issue 3

### 34 NYNEX portholes: initial user reactions and redesign implications 77


 Alison Lee , Andreas Girgensohn , Kevin Schlueter  
**Proceedings of the international ACM SIGGROUP conference on Supporting group work : the integration challenge: the integration challenge** November 1997

### 35 A video retrieval and sequencing system 77

 Tat-Seng Chua , Li-Qun Ruan  
**ACM Transactions on Information Systems (TOIS)** October 1995  
Volume 13 Issue 4


Video is an effective medium for capturing the events in the real world around us, and a vast amount of video materials exists, covering a wide range of applications. However, widespread use of video in computer applications is often impeded by the lack of effective tools to manage video information systematically. This article discusses the design and implementation of a frame-based video retrieval and sequencing system (VRSS). The system is designed to support the entire process of video ...

### 36 An approach to natural gesture in virtual environments 77

 Alan Wexelblat  
**ACM Transactions on Computer-Human Interaction (TOCHI)** September 1995  
Volume 2 Issue 3

This article presents research—an experiment and the resulting prototype—on a method for treating gestural input so that it can be used for multimodal applications, such as interacting with virtual environments. This method involves the capture and use of natural , empty-hand gestures that are made during conventional descriptive utterances. Users are allowed to gesture in a normal continuous manner, rather than being restricted to a small set of discrete gestural commands as in ...

### 37 The generative lexicon 77


 James Pustejovsky  
**Computational Linguistics** December 1991  
Volume 17 Issue 4

In this paper, I will discuss four major topics relating to current research in lexical semantics:

methodology, descriptive coverage, adequacy of the representation, and the computational usefulness of representations. In addressing these issues, I will discuss what I think are some of the central problems facing the lexical semantics community, and suggest ways of best approaching these issues. Then, I will provide a method for the decomposition of lexical categories and outline a theory of lex ...

### 38 Metaphor mayhem: mismanaging expectation and surprise

77

 Aaron Marcus  
**interactions** January 1994  
Volume 1 Issue 1

### 39 Loading data into description reasoners


77

 Alex Borgida , Ronald J. Brachman  
**ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data** June 1993  
Volume 22 Issue 2

Knowledge-base management systems (KBMS) based on description logics are being used in a variety of situations where access is needed to large amounts of data stored in existing relational databases. We present the architecture and algorithms of a system that converts most of the inferences made by the KBMS into a collection of SQL queries, thereby relying on the optimization facilities of existing DBMS to gain efficiency, while maintaining an object-centered view of the world with a substa ...



### 40 SEPIA: a cooperative hypermedia authoring environment

77

 Norbert Streitz , Jörg Haake , Jörg Hannemann , Andreas Lemke , Wolfgang Schuler , Helge Schütt , Manfred Thüring  
**Proceedings of the ACM conference on Hypertext** December 1993

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### 41 AWI: a workbench for semi-automated illustration design

77



Thomas Rist , Antonio Krüger , Georg Schneider , Detlev Zimmermann

**Proceedings of the workshop on Advanced visual interfaces** June 1994

In this paper we present the system AWI (A Workbench for semi-automated Illustration design). AWI provides operationalizations of illustration techniques frequently used in technical illustration. Given that pure editing systems are too low-level, and that automatically generated illustrations are often suboptimal with regard to functional and aesthetic aspects, semi-automatism seems a reasonable way to produce effective illustrations more efficiently. Within such ...

### 42 Introducing semantics in conceptual schema reuse

77



Ana Paula Ambrosio

**Proceedings of the third international conference on Information and knowledge management** November 1994

Although standard components' manufacture and reuse is common practice in many engineering domains (e.g. electrical and mechanical engineering), this is not yet the case with respect to software development. Ironically, in such a highly "automated" domain, users still fail to find available components that match their needs faster than developing them again. The gap between what designers expect from reuse (and how it should be offered), and the actual reuse attempts remains the ...

### 43 Information organization in multimedia resources

77



Rick Kazman , John Kominek

**Proceedings of the 11th annual international conference on Systems documentation** November 1993

### 44 Computational strategies for object recognition

77



Paul Suetens , Pascal Fua , Andrew J. Hanson

**ACM Computing Surveys (CSUR)** March 1992  
Volume 24 Issue 1

This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used.

Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

#### 45 The role of critiquing in cooperative problem solving

77



Gerhard Fischer , Andreas C. Lemke , Thomas Mastaglio , Andres I. Morch

**ACM Transactions on Information Systems (TOIS)** April 1991

Volume 9 Issue 2

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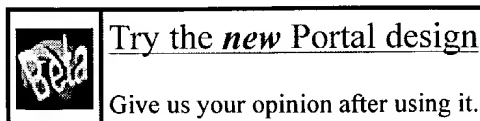
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### 1 Papers from MC<sup>2</sup>R open call: Towards integrated PSEs for wireless communications: 77 experiences with the S<sup>4</sup>W and SitePlanner® projects



Roger R. Skidmore , Alex Verstak , Naren Ramakrishnan , Theodore S. Rappaport , Layne T. Watson , Jian He , Srinidhi Varadarajan , Clifford A. Shaffer , Jeremy Chen , Kyung Kyoon Bae , Jing Jiang , William H. Tranter

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**ACM SIGGRAPH Computer Graphics** January 1992

Volume 26 Issue 1

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Paul Schwartz , Lauren Bricker , Bruce Campbell , Tom Furness , Kori Inkpen , Lydia Matheson , Nobutatsu Nakamura , Li-Sheng Shen , Susan Tanney , Shihming Yen

**Proceedings of the ACM symposium on Virtual reality software and technology** November 1998

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 **ACM Computing Surveys (CSUR)** March 2002  
Volume 34 Issue 1  
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 Michael Brady  
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- 8 Network Protocols** 77  
 Andrew S. Tanenbaum  
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Volume 13 Issue 4
- 9 Geographic Data Processing** 77  
 George Nagy , Sharad Wagle  
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- 10 Current technological impediments to business-to-consumer electronic commerce** 77  
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## 12 Special issue on Machine learning methods for text and images: A neural

### probabilistic language model

Yoshua Bengio , Réjean Ducharme , Pascal Vincent , Christian Janvin

**The Journal of Machine Learning Research** March 2003

Volume 3

A goal of statistical language modeling is to learn the joint probability function of sequences of words in a language. This is intrinsically difficult because of the **curse of dimensionality**: a word sequence on which the model will be tested is likely to be different from all the word sequences seen during training. Traditional but very successful approaches based on n-grams obtain generalization by concatenating very short overlapping sequences seen in the training set. We propose to fig ...

## 13 Applications: Building a massively multiplayer game for the million: Disney's

77

### Toontown Online

Mark R. Mine , Joe Shochet , Roger Hughston

**Computers in Entertainment (CIE)** October 2003

Volume 1 Issue 1

This paper presents an overview of the lessons learned building Disney's Toontown Online, a 3D massively multiplayer online game (MMP) for children ages seven and older. The paper is divided into three main parts. The first presents design highlights of Toontown Online and focuses on the challenge of building an MMP for kids. In particular, we discuss ways of incorporating kid-friendly socialization into an MMP. The second part of the paper presents an overview of Panda-3D, the VR Studio's open ...

## 14 Data integrity: Web application security assessment by fault injection and behavior

77

### monitoring

Yao-Wen Huang , Shih-Kun Huang , Tsung-Po Lin , Chung-Hung Tsai

**Proceedings of the twelfth international conference on World Wide Web** May 2003

As a large and complex application platform, the World Wide Web is capable of delivering a broad range of sophisticated applications. However, many Web applications go through rapid development phases with extremely short turnaround time, making it difficult to eliminate vulnerabilities. Here we analyze the design of Web application security assessment mechanisms in order to identify poor coding practices that render Web applications vulnerable to attacks such as SQL injection and cross-site scr ...

## 15 Special issue on critical analyses of ERP systems: the macro level: The control

77

### devolution: ERP and the side effects of globalization

Ole Hanseth , Claudio U. Ciborra , Kristin Braa

**ACM SIGMIS Database** September 2001

Volume 32 Issue 4

When looking at the implementation of ERP systems in large organizations, the typical business concerns are attaining the goals of the application, usually globalization and efficiency, securing the organization's acceptance, avoiding rigidity, and so on. By now, the literature is full of both normative models on how to implement ERPs successfully and cautioning tales of how the road to success is paved by traps, slowdowns, and even disillusion. This paper does not take sides in this emerging li ...

## 16 Columns: Risks to the public in computers and related systems

77

### Peter G. Neumann

**ACM SIGSOFT Software Engineering Notes** January 2001

Volume 26 Issue 1

## 17 Privacy and security: an ethical analysis

77

### Gregory J. Walters

**ACM SIGCAS Computers and Society** June 2001

Volume 31 Issue 2

**18** Illustrative risks to the public in the use of computer systems and related technology

77

Peter G. Neumann

**ACM SIGSOFT Software Engineering Notes** January 1996

Volume 21 Issue 1

**19** Tangible interaction + graphical interpretation: a new approach to 3D modeling

77

David Anderson , James L. Frankel , Joe Marks , Aseem Agarwala , Paul Beardsley , Jessica Hodgins , Darren Leigh , Kathy Ryall , Eddie Sullivan , Jonathan S. Yedidia

**Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

July 2000

Construction toys are a superb medium for geometric models. We argue that such toys, suitably instrumented or sensed, could be the inspiration for a new generation of easy-to-use, tangible modeling systems—especially if the tangible modeling is combined with graphical-interpretation techniques for enhancing nascent models automatically. The three key technologies needed to realize this idea are embedded computation, vision-based acquisition, and graphical interpretation. We sample the ...

**20** Workshop on compositional software architectures: workshop report



77

**ACM SIGSOFT Software Engineering Notes** May 1998

Volume 23 Issue 3

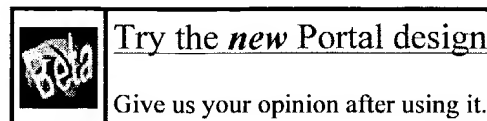
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### 21 NYNEX portholes: initial user reactions and redesign implications


77

 Alison Lee , Andreas Girgensohn , Kevin Schlueter

**Proceedings of the international ACM SIGGROUP conference on Supporting group work : the integration challenge: the integration challenge** November 1997

### 22 A video retrieval and sequencing system

77

 Tat-Seng Chua , Li-Qun Ruan


**ACM Transactions on Information Systems (TOIS)** October 1995

Volume 13 Issue 4

Video is an effective medium for capturing the events in the real world around us, and a vast amount of video materials exists, covering a wide range of applications. However, widespread use of video in computer applications is often impeded by the lack of effective tools to manage video information systematically. This article discusses the design and implementation of a frame-based video retrieval and sequencing system (VRSS). The system is designed to support the entire process of video ...

### 23 The generative lexicon

77

 James Pustejovsky


**Computational Linguistics** December 1991

Volume 17 Issue 4

In this paper, I will discuss four major topics relating to current research in lexical semantics: methodology, descriptive coverage, adequacy of the representation, and the computational usefulness of representations. In addressing these issues, I will discuss what I think are some of the central problems facing the lexical semantics community, and suggest ways of best approaching these issues. Then, I will provide a method for the decomposition of lexical categories and outline a theory of lex ...

### 24 Loading data into description reasoners

77


 Alex Borgida , Ronald J. Brachman

**ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data** June 1993


Volume 22 Issue 2

Knowledge-base management systems (KBMS) based on description logics are being used in a variety of situations where access is needed to large amounts of data stored in existing relational databases. We present the architecture and algorithms of a system that converts most of the inferences made by the KBMS into a collection of SQL queries, thereby relying on the optimization facilities of existing DBMS to gain efficiency, while maintaining an object-centered view of the world with a substa ...


## 25 SEPIA: a cooperative hypermedia authoring environment 77

 Norbert Streitz , Jörg Haake , Jörg Hannemann , Andreas Lemke , Wolfgang Schuler , Helge Schütt , Manfred Thüring  
**Proceedings of the ACM conference on Hypertext** December 1993


## 26 Introducing semantics in conceptual schema reuse 77

 Ana Paula Ambrosio  
**Proceedings of the third international conference on Information and knowledge management** November 1994  
Although standard components' manufacture and reuse is common practice in many engineering domains (e.g. electrical and mechanical engineering), this is not yet the case with respect to software development. Ironically, in such a highly "automated" domain, users still fail to find available components that match their needs faster than developing them again. The gap between what designers expect from reuse (and how it should be offered), and the actual reuse attempts remains the ...

## 27 Information organization in multimedia resources 77



 Rick Kazman , John Kominek  
**Proceedings of the 11th annual international conference on Systems documentation** November 1993

## 28 Computational strategies for object recognition 77

 Paul Suetens , Pascal Fua , Andrew J. Hanson  
**ACM Computing Surveys (CSUR)** March 1992  
Volume 24 Issue 1  
This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

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*Meimei, G.; Mengchu Zhou;*

Electronics and the Environment, 2003. IEEE International Symposium on , 19-22 May 2003

Pages:224 - 229

[[Abstract](#)] [[PDF Full-Text \(375 KB\)](#)] **IEEE CNF**

### 2 A framework for technology management in services

*McDermott, C.M.; Kang, H.; Walsh, S.;*

Engineering Management, IEEE Transactions on , Volume: 48 , Issue: 3 , Aug. 2001

Pages:333 - 341

[[Abstract](#)] [[PDF Full-Text \(88 KB\)](#)] **IEEE JNL**

### 3 3-D modelling in a teaching company scheme

*Hodkinson, M.; Patel, R.;*

Computer-Aided Engineering Journal , Volume: 6 , Issue: 5 , Oct. 1989

Pages:177 - 180

[[Abstract](#)] [[PDF Full-Text \(396 KB\)](#)] **IEEE JNL**

### 4 Electronic broker impacts on the value of postponement

*Robinson, W.N.; Elofson, G.;*

System Sciences, 2000. Proceedings of the 33rd Annual Hawaii International Conference on , 4-7 Jan. 2000

Pages:10 pp. vol.1

[[Abstract](#)] [[PDF Full-Text \(148 KB\)](#)] **IEEE CNF**

### 5 A novel approach to the design and implementation of very high-speed

**digit-serial modified-Booth multipliers**

*Rao, V.M.; Nourouzian, B.;*

Circuits and Systems, 1996., IEEE 39th Midwest symposium on , Volume: 1 , 18-21 Aug. 1996

Pages:61 - 64 vol.1

[[Abstract](#)] [[PDF Full-Text \(420 KB\)](#)] IEEE CNF

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**6 A novel high-speed parallel multiply-accumulate arithmetic architecture employing modified radix-4 signed-binary recoding**

*Rao, V.M.; Nowrouxian, B.;*

Circuits and Systems, 1996., IEEE 39th Midwest symposium on , Volume: 1 , 18-21 Aug. 1996

Pages:57 - 60 vol.1

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**7 Enhanced reliability prediction method based on merging military standards approach with manufacturer's warranty data**

*Kleyner, A.; Bender, M.;*

Reliability and Maintainability Symposium, 2003. Annual , 27-30 Jan. 2003

Pages:202 - 206

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**8 Groupware case studies: electronic meeting systems in the work place**

*Corbitt, G.; Martz, B.;*

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**9 A design for recycling technique for optimizing resource circulation characteristics of products**

*Kondo, Y.; Hirai, K.-S.; Obata, F.;*

Environmentally Conscious Design and Inverse Manufacturing, 2001. Proceedings EcoDesign 2001: Second International Symposium on , 11-15 Dec. 2001

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**10 VORAD collision warning radar**

*Woll, J.D.;*

Radar Conference, 1995., Record of the IEEE 1995 International , 8-11 May 1995

Pages:369 - 372

[[Abstract](#)] [[PDF Full-Text \(348 KB\)](#)] IEEE CNF

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**11 A Two-Channel Picture Coding System: II--Adaptive Companding and Color Coding**

*Schreiber, W.; Buckley, R.;*

Communications, IEEE Transactions on [legacy, pre - 1988] , Volume: 29 , Issue: 12 , Dec 1981

Pages:1849 - 1858

[[Abstract](#)] [[PDF Full-Text \(1264 KB\)](#)] IEEE JNL



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**12 Minimal trellis design for linear codes based on the Shannon product**

*Sidorenko, V.; Markarian, G.; Honary, B.;*

Information Theory, IEEE Transactions on , Volume: 42 , Issue: 6 , Nov. 1996

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**13 CEBAF cryomodules: test results and status**

*Campisi, I.E.; Ahlman, R.; Augustine, M.; Crawford, K.; Drury, M.; Jordan, K.; Kelley, P.; Lee, T.; Marshall, J.; Preble, J.; Robb, J.; Schneider, W.; Susta, J.; Van Dyke, J.; Wiseman, M.;*

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Pages:2300 - 2303

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**14 Utilization of commercial-grade items in nuclear safety applications**

*Craig, W.E.; Mulford, T.J.;*

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**15 A planning and routing model for the integrated supply chain management**

*Adacher, L.; Detti, P.; Meloni, C.;*

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Software Engineering, IEEE Transactions on , Volume: 26 , Issue: 5 , May 2000

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[\[Abstract\]](#)   [\[PDF Full-Text \(347 KB\)\]](#)   IEEE CNF**3 The multikey type index for persistent object sets***Mueck, T.A.; Polaschek, M.L.;*

Data Engineering, 1997. Proceedings. 13th International Conference on , 7-11 April 1997

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Systems, Man and Cybernetics, 2002 IEEE International Conference on , Volume: 3 , 6-9 Oct. 2002

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[\[Abstract\]](#)   [\[PDF Full-Text \(432 KB\)\]](#)   IEEE CNF**5 Hierarchical pre-segmentation without prior knowledge***Kuijper, A.; Florack, L.;*

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Pages:487 - 493 vol.2

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**6 Optimal allocation of electronic content**

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*Maruyama, K.; Shima, K.;*

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**8 Evidential reasoning neural networks**

*Mohiddin, S.M.; Dillon, T.S.;*

Neural Networks, 1994. IEEE World Congress on Computational Intelligence., 1994 IEEE International Conference on , Volume: 3 , 27 June-2 July 1994  
Pages:1600 - 1606 vol.3

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**9 Decentralized resource management for a distributed continuous media server**

*Shahabi, C.; Banaei-Kashani, F.;*

Parallel and Distributed Systems, IEEE Transactions on , Volume: 13 , Issue: 11 , Nov. 2002  
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**10 Dynamic 3D visualization of database-defined tree structures on the WWW by using rewriting systems**

*Noser, H.; Stucki, P.;*

Advanced Issues of E-Commerce and Web-Based Information Systems, 2000. WECWIS 2000. Second International Workshop on , 8-9 June 2000  
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**11 Management of conflicting information in temporal environments**

*Al-Roki, H.; Chountas, P.; Petrounias, I.;*

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*Warren, S.; Yao, J.; Schmitz, R.; Nagl, L.;*

Engineering in Medicine and Biology Society, 2003. Proceedings of the 25th Annual International Conference of the IEEE, Volume: 4, 17-21 Sept. 2003  
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### 17 802.11 over coax - a hybrid coax-wireless home network using 802.11 technology

*Ophir, L.; Bitran, Y.;*

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### 18 Product portfolio design for component reuse

*Mangun, D.; Thurston, D.L.;*

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### 19 Coral reefs: a multi-scale approach to monitoring their composition and dynamics

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Geoscience and Remote Sensing Symposium, 2000. Proceedings. IGARSS 2000. IEEE 2000 International, Volume: 6, 24-28 July 2000  
Pages:2672 - 2674 vol.6

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20 **Metrics and risks of CBSE [component-based software engineering]**

*Takeshita, T.;*

Assessment of Software Tools and Technologies, 1997., Proceedings Fifth International Symposium on , 2-5 June 1997

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21 **Design of a 1 kW class gamma type Stirling engine**

*Raggi, L.; Katsuta, M.; Sekiya, H.;*

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22 **A novel approach to the design and hardware implementation of high-speed digit-serial modified-Booth digital multipliers**

*Rao, V.M.; Nowrouzian, B.;*

Circuits and Systems, 1997. ISCAS '97., Proceedings of 1997 IEEE International Symposium on , Volume: 3 , 9-12 June 1997

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23 **Manufacturing Design thread in a manufacturing engineering curriculum**

*Moller, J.C.; Schmahl, K.E.; Bardes, B.P.; Shinn, K.D.;*

Frontiers in Education Conference, 1997. 27th Annual Conference. 'Teaching and Learning in an Era of Change'. Proceedings. , Volume: 3 , 5-8 Nov. 1997

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24 **An integrated design approach for virtual prototyping and manufacturing**

*Tomasek, R.;*

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25 **Computer animation and visualisation techniques of mechanical products for assembly analysis**

*Marco, P.N.; Esamuele, S.;*

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26 **A supply chain model for software components management**

*Dai, W.; Rubin, S.H.;*

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**27 Certification of photovoltaic inverters: the initial step toward PV system certification**

*Bower, W.; Whitaker, C.;*

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**28 Application of CBSE to projects with evolving requirements-a lesson-learned**

*Tran, V.N.; Lin, D.-B.;*

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**29 A concept for virtual reality tools for design reviews**

*Kremer, K.;*

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**30 Assemblability evaluation based on tolerance propagation**

*Sukhan Lee; Chunsik Yi;*

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Intelligent Robots and Systems 95. 'Human Robot Interaction and Cooperative Robots', Proceedings. 1995 IEEE/RSJ International Conference on , Volume: 3 , 5-9 Aug. 1995

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[\[Abstract\]](#)   [\[PDF Full-Text \(544 KB\)\]](#)   IEEE CNF**32 Digital partial discharge measuring system with interference recognition***Buchailla, H.; Flohr, Th.; Pfeiffer, W.;*

Electrical Insulation and Dielectric Phenomena, 1995. Annual Report., Conference on , 22-25 Oct. 1995

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[\[Abstract\]](#)   [\[PDF Full-Text \(404 KB\)\]](#)   IEEE CNF**33 Connectors-metallurgy meets modeling***Cribb, W.R.; Ratka, J.O.;*

Electronic Components and Technology Conference, 1994. Proceedings., 44th , 1-4 May 1994

Pages:758 - 765

[\[Abstract\]](#)   [\[PDF Full-Text \(616 KB\)\]](#)   IEEE CNF**34 Tolerance analysis for assembly planning***Sukhan Lee; Chunsik Yi;*

Computer Integrated Manufacturing and Automation Technology, 1994., Proceedings of the Fourth International Conference on , 10-12 Oct. 1994

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35 **RACE project 1036-WTDM broadband CPN**

*Oliphant, A.;*

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